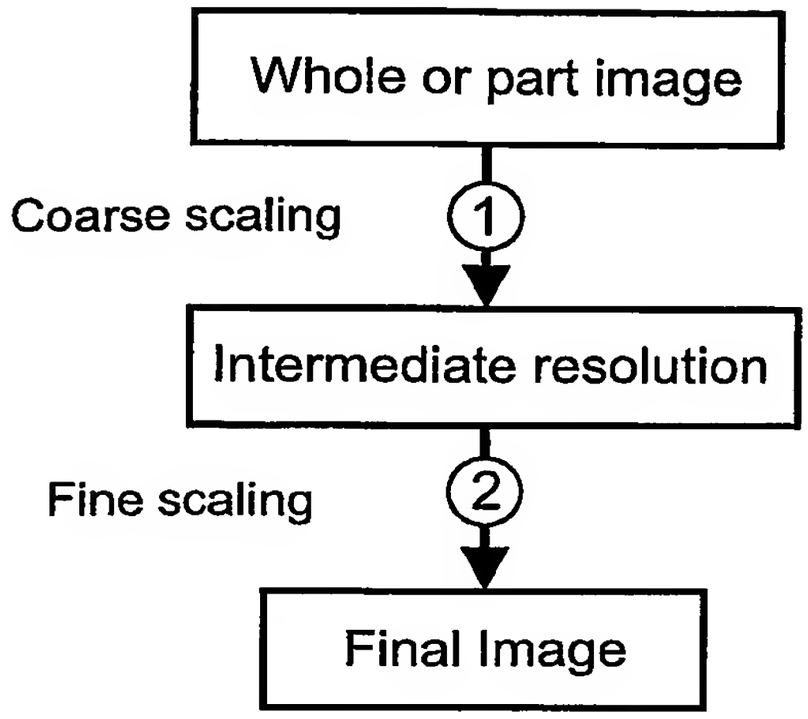

Whole or part image
Coarse scaling
1
Intermediate resolution
Fine scaling
2
Final Image

Fig. 1

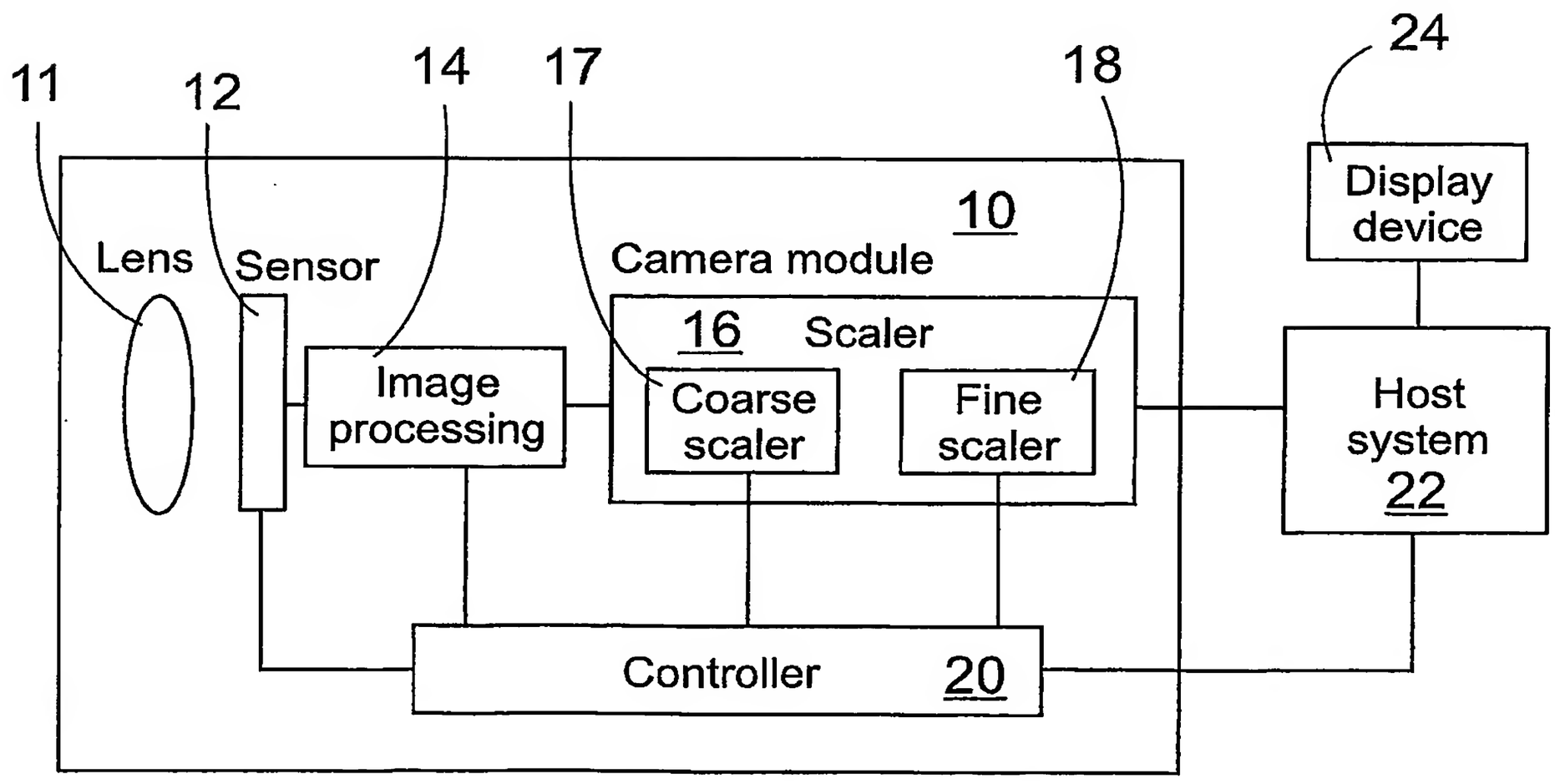

11
12
14
17
18
24
10
Lens
Sensor
Camera module
16 Scaler
Image processing
Coarse scaler
Fine scaler
Display device
Host system
22
Controller
20

Fig. 2a

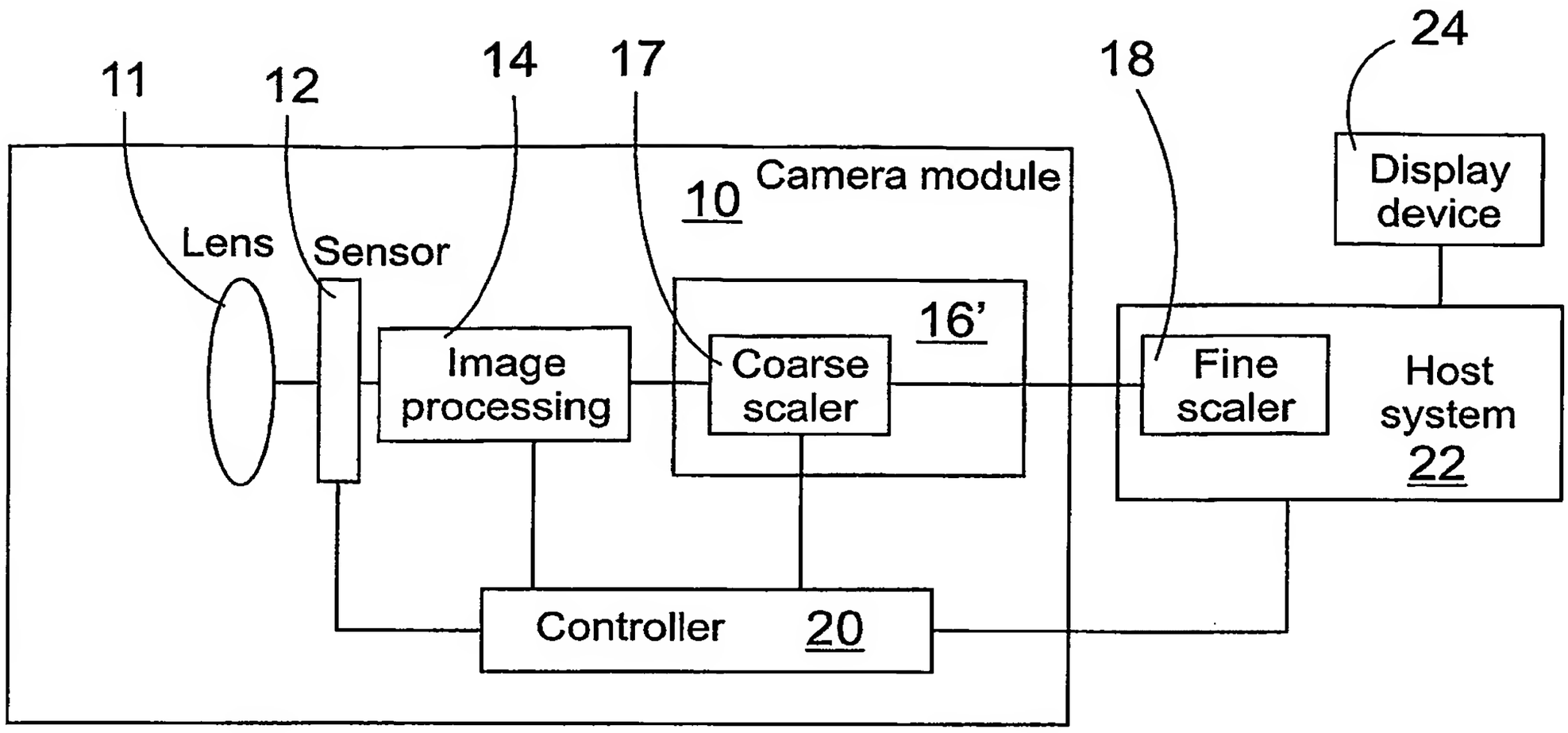

11
12
14
17
18
24
Camera module
10
Lens
Sensor
Image processing
16'
Coarse scaler
Fine scaler
Host system
22
Display device
Controller 20

Fig. 2b

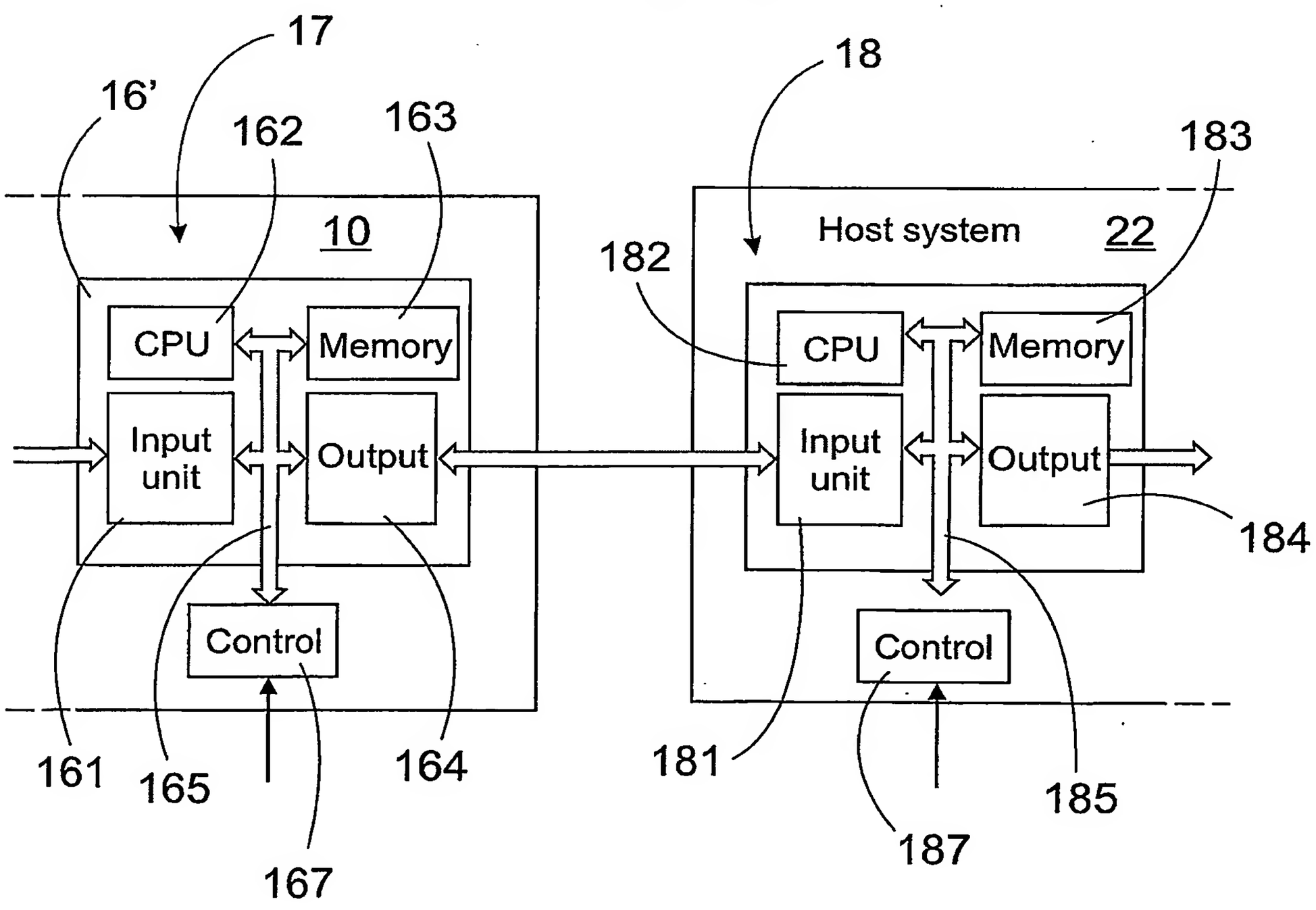

17
16'
162
163
10
CPU
Memory
Input unit
Output
Control
161
165
164
167
18
183
Host system
22
182
CPU
Memory
Input unit
Output
184
Control
181
185
187

Fig. 2c

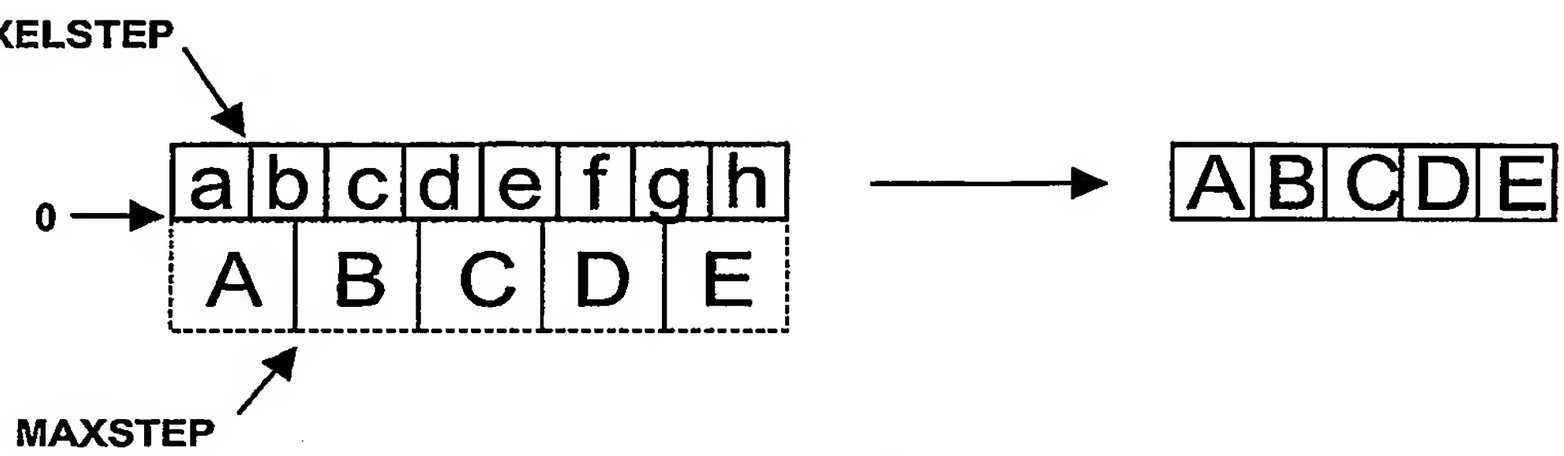
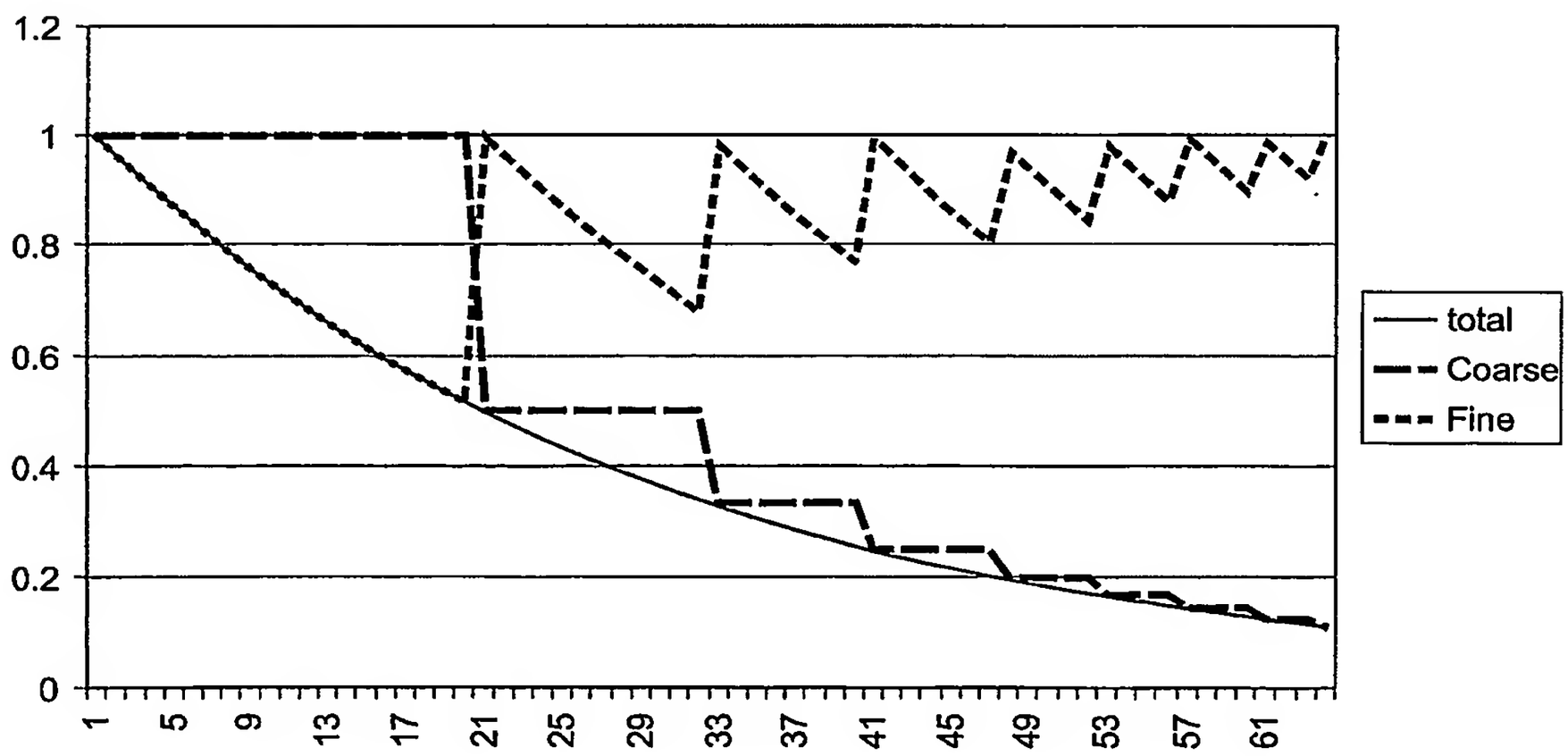

PIXELSTEP
0
a b c d e f g h
A B C D E
MAXSTEP
A B C D E

Fig. 3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1
0.8
0.6
0.4
0.2
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
total
Coarse
Fine

Fig. 4a

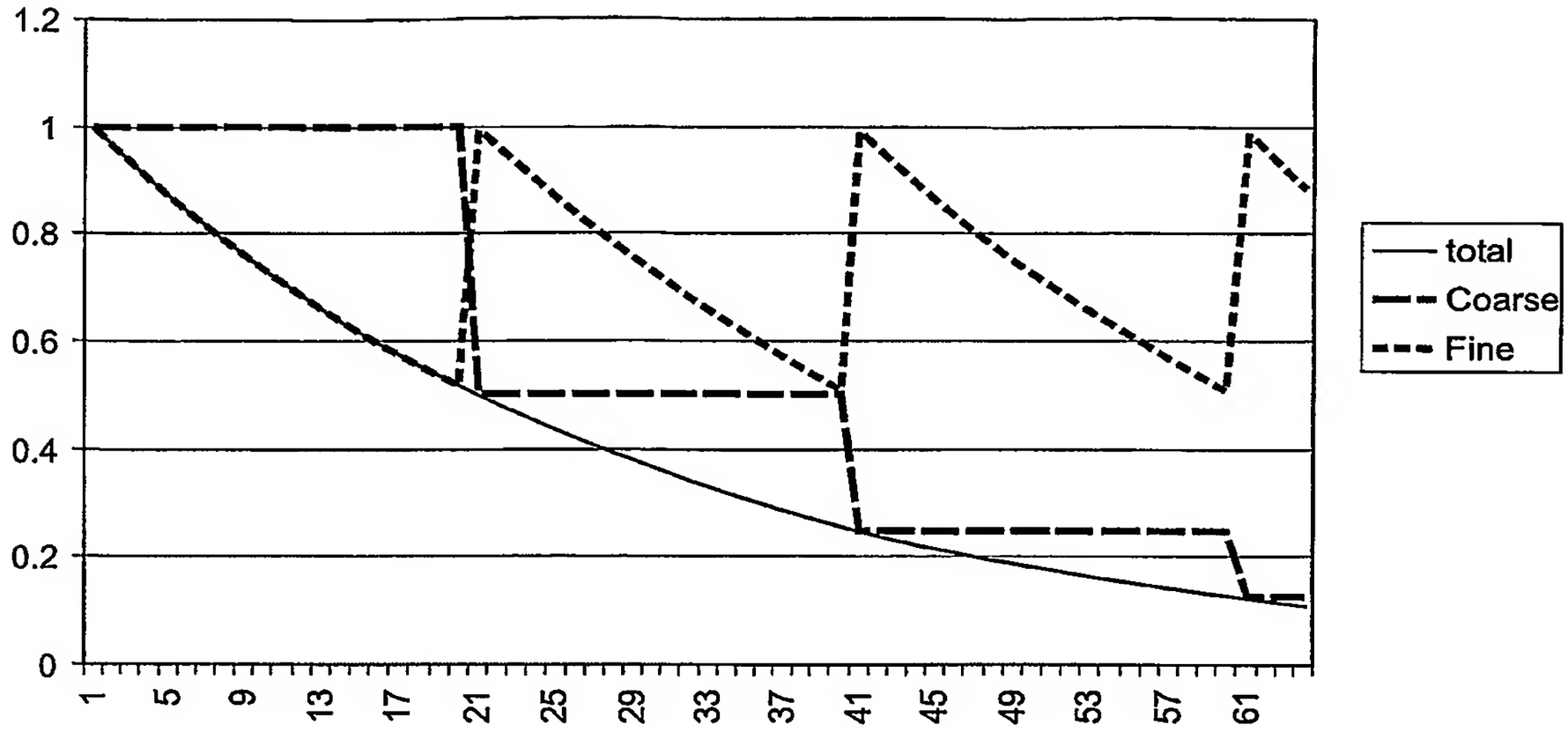
1.2
1
0.8
0.6
0.4
0.2
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
total
Coarse
Fine

Fig. 4b

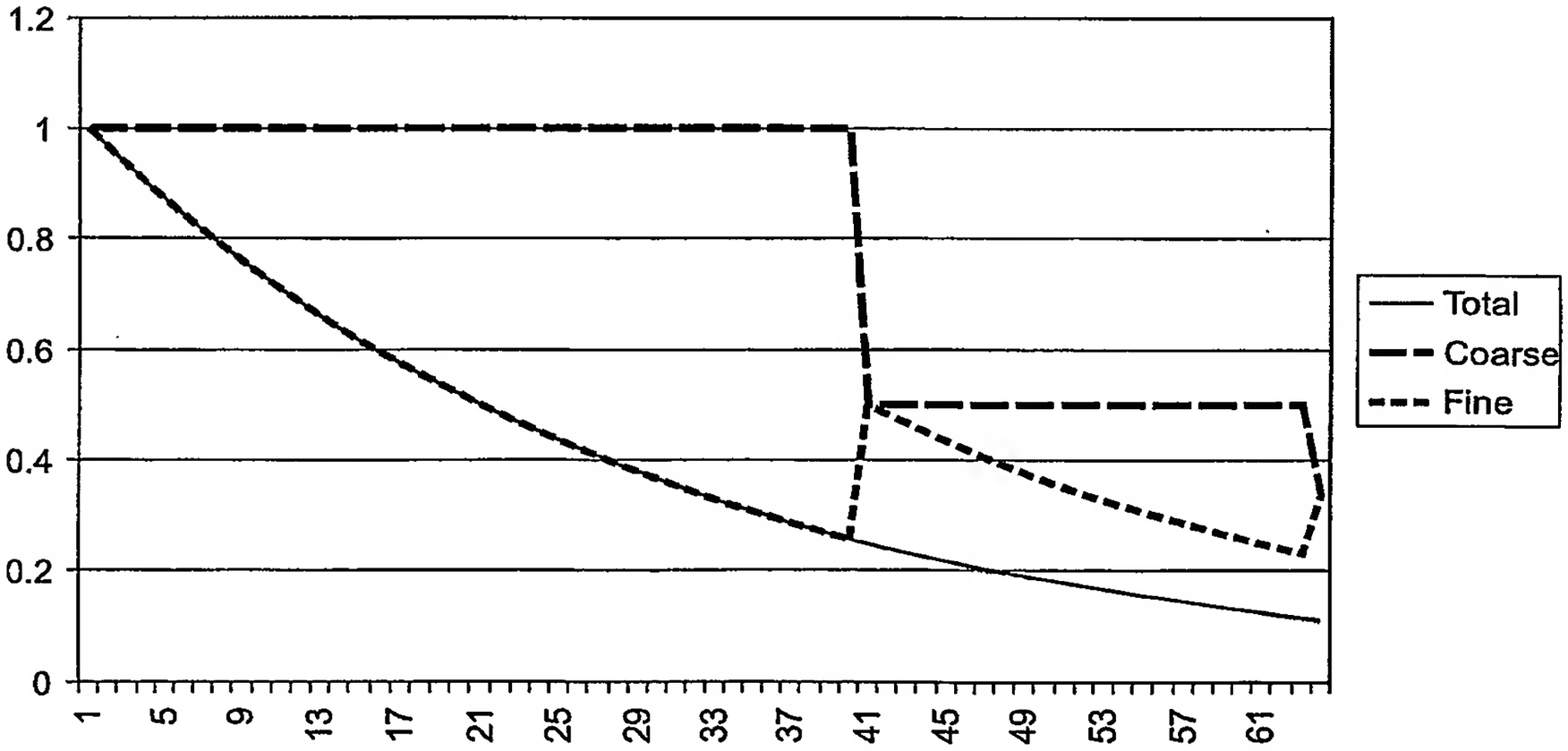
1.2
1
0.8
0.6
0.4
0.2
0
1
5
9
13
17
21
25
29
33
37
41
45
49
53
57
61
Total
Coarse
Fine

Fig. 4c